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FIG. 1

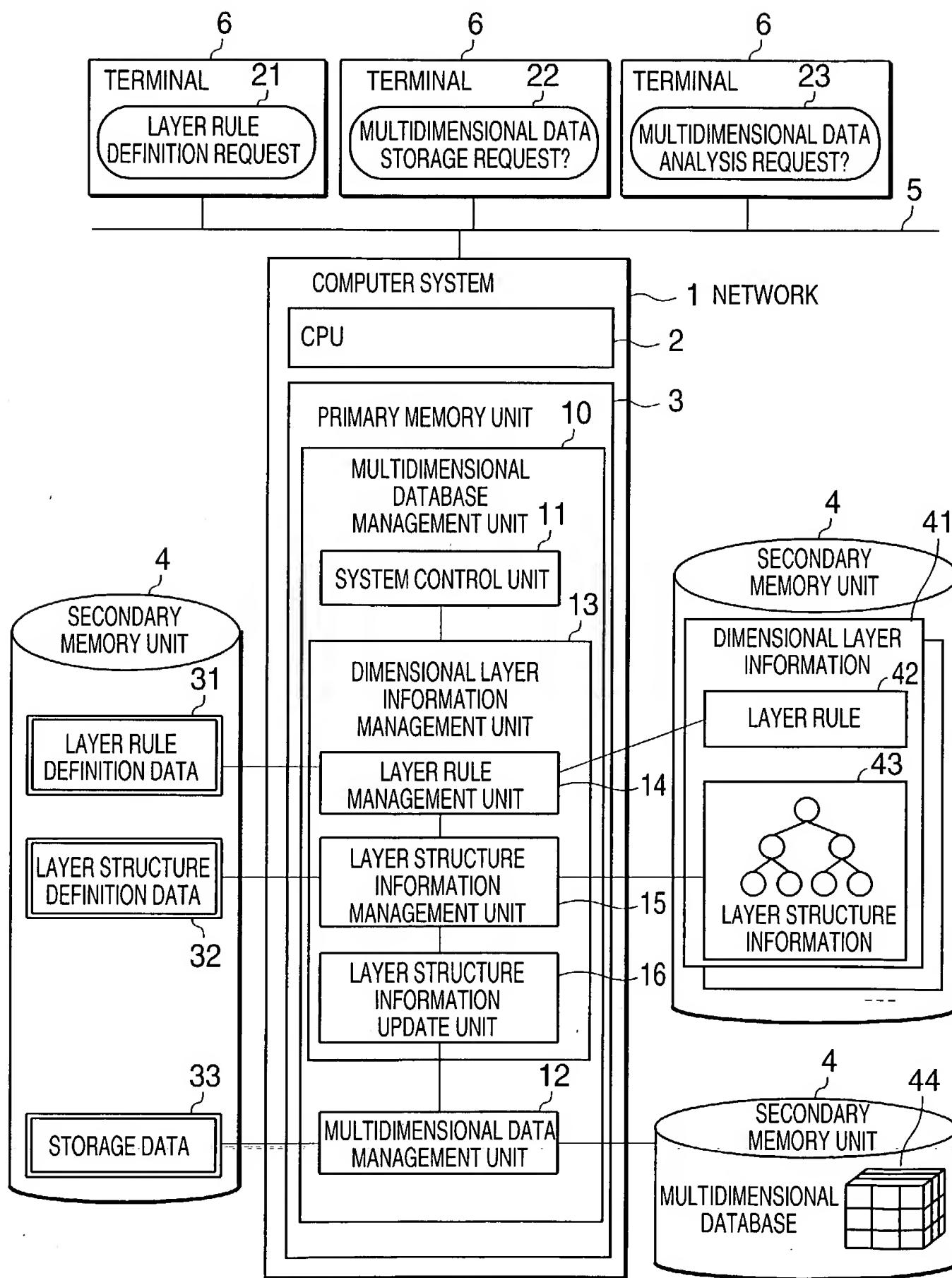




FIG.2

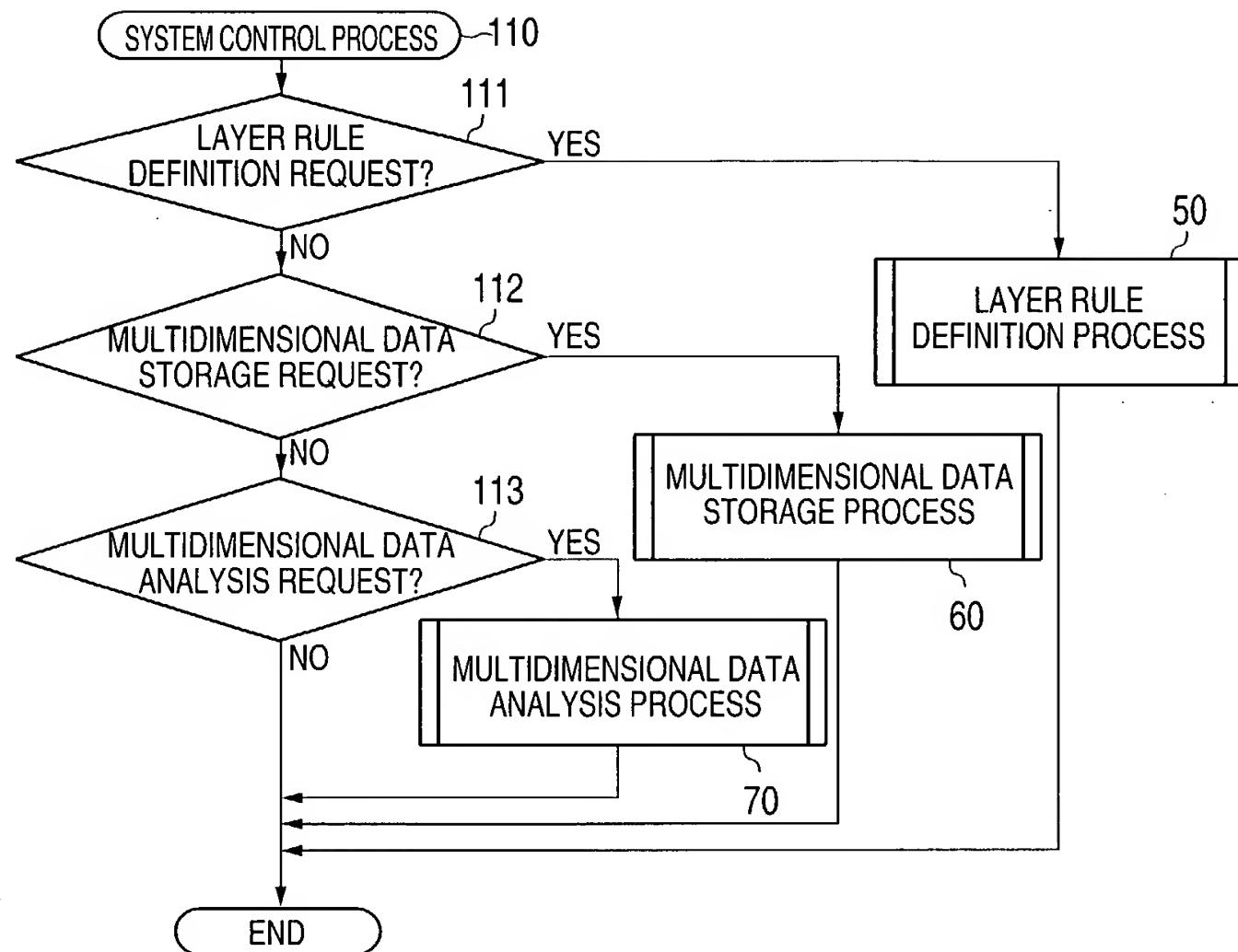


FIG.3

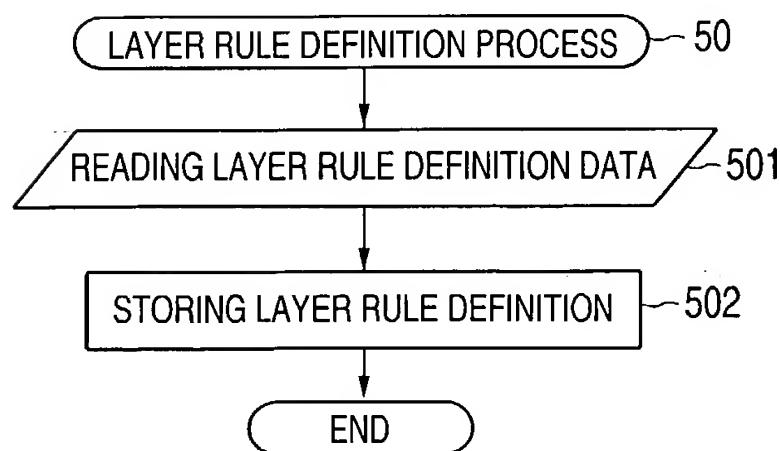




FIG.4

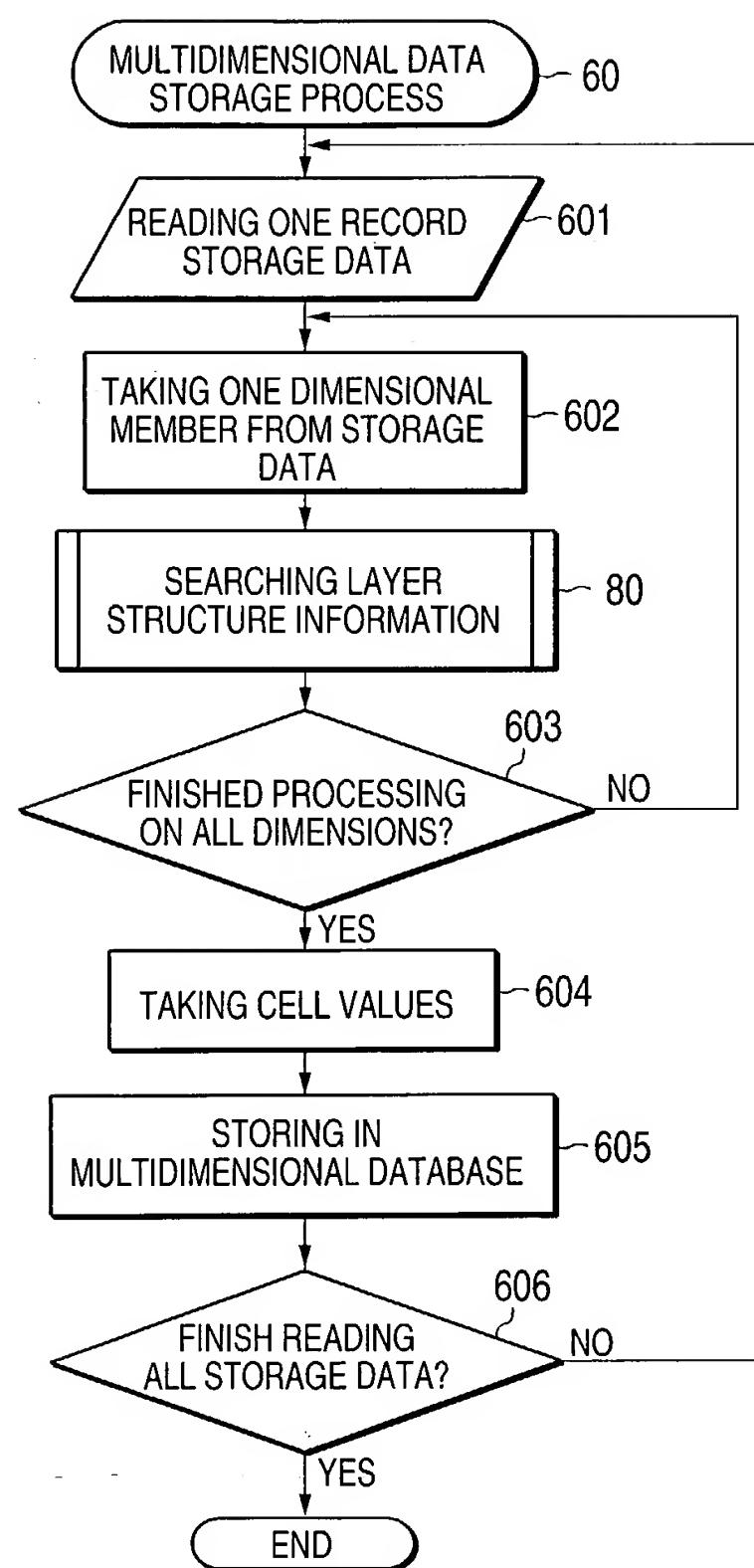




FIG.5

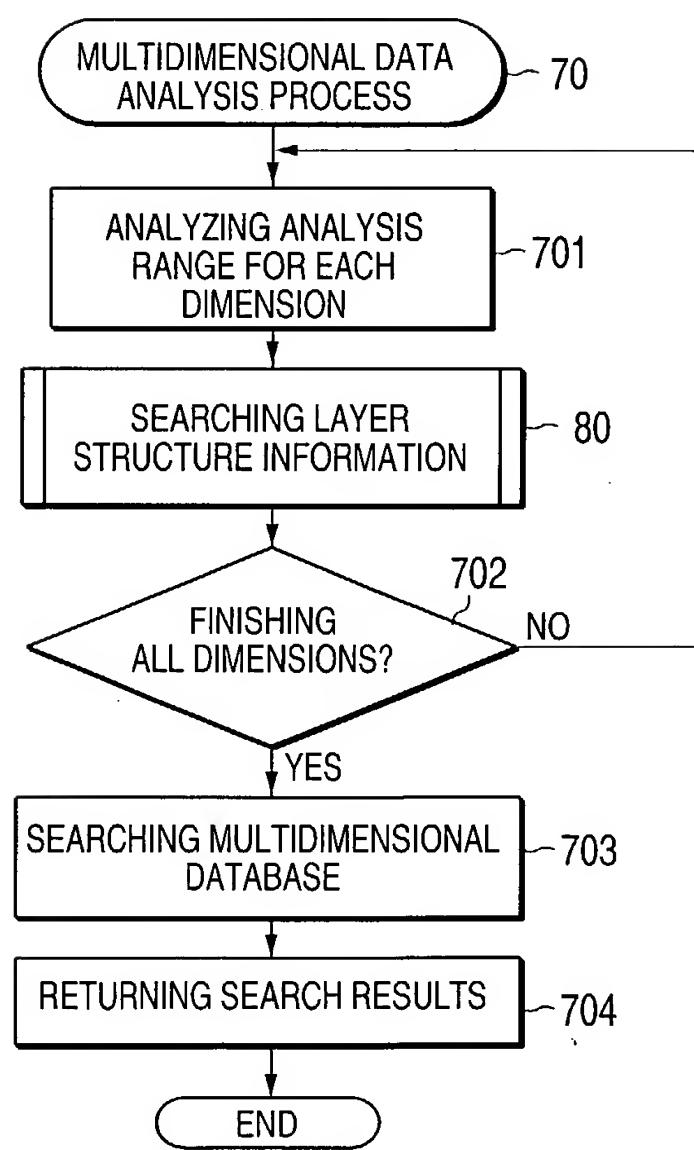




FIG.6

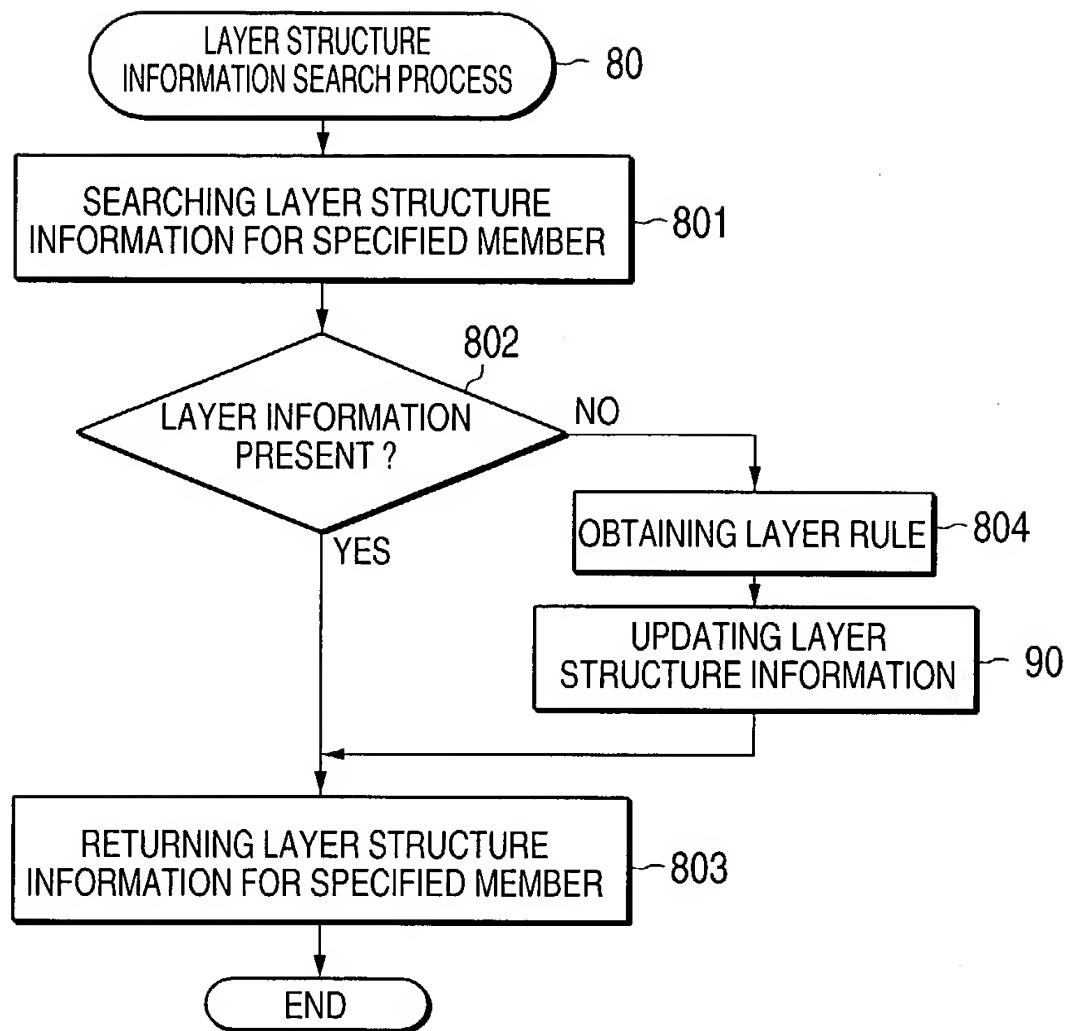


FIG.7

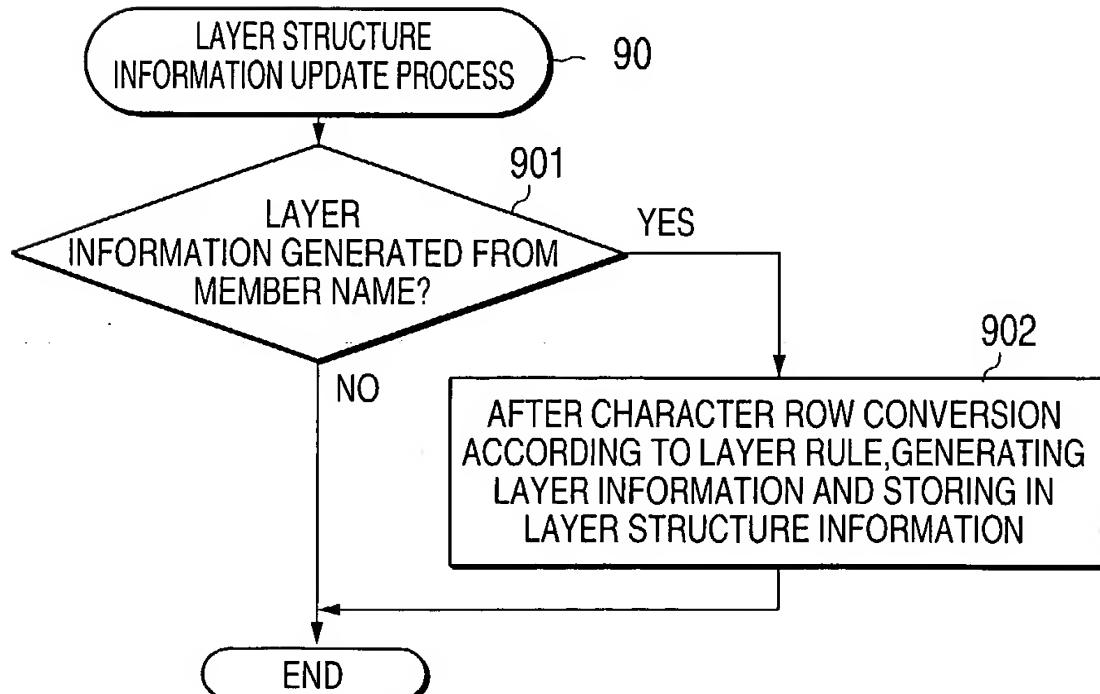




FIG.8

3110

TIME DIMENSIONAL LAYER RULE DEFINITION DATA

#LAYER RULE :

#AFTER CHARACTER ROW CONVERSION ON MEMBER, OBTAINING LAYER INFORMATION

FROM MEMBER NAME

LEVEL10= \$ MEMBER NAME

LEVEL11={

S/¥(... \)0[123]/\1Q1/

S/¥(... \)0[456]/\1Q2/

S/¥(... \)0[789]/\1Q3/

S/¥(... \)1[012]/\1Q4/

]

LEVEL12={

S/ (.... \)../\1/

]



FIG.9

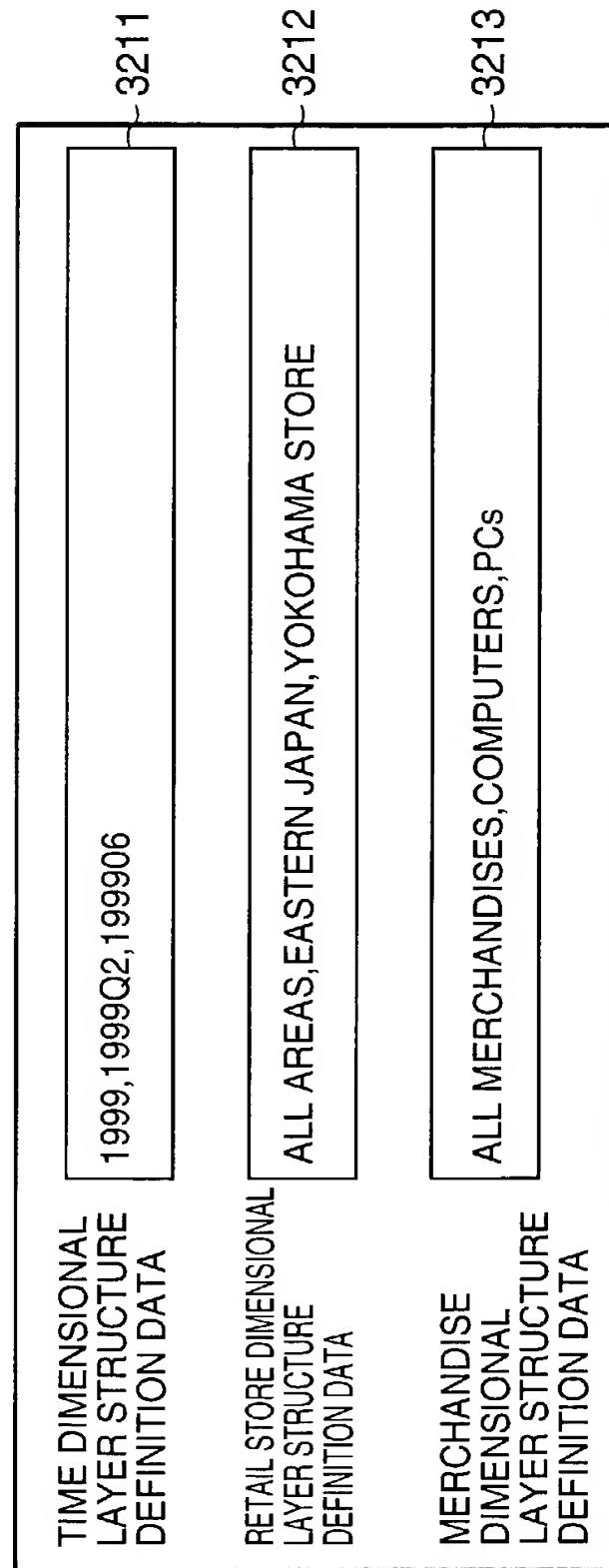




FIG.10

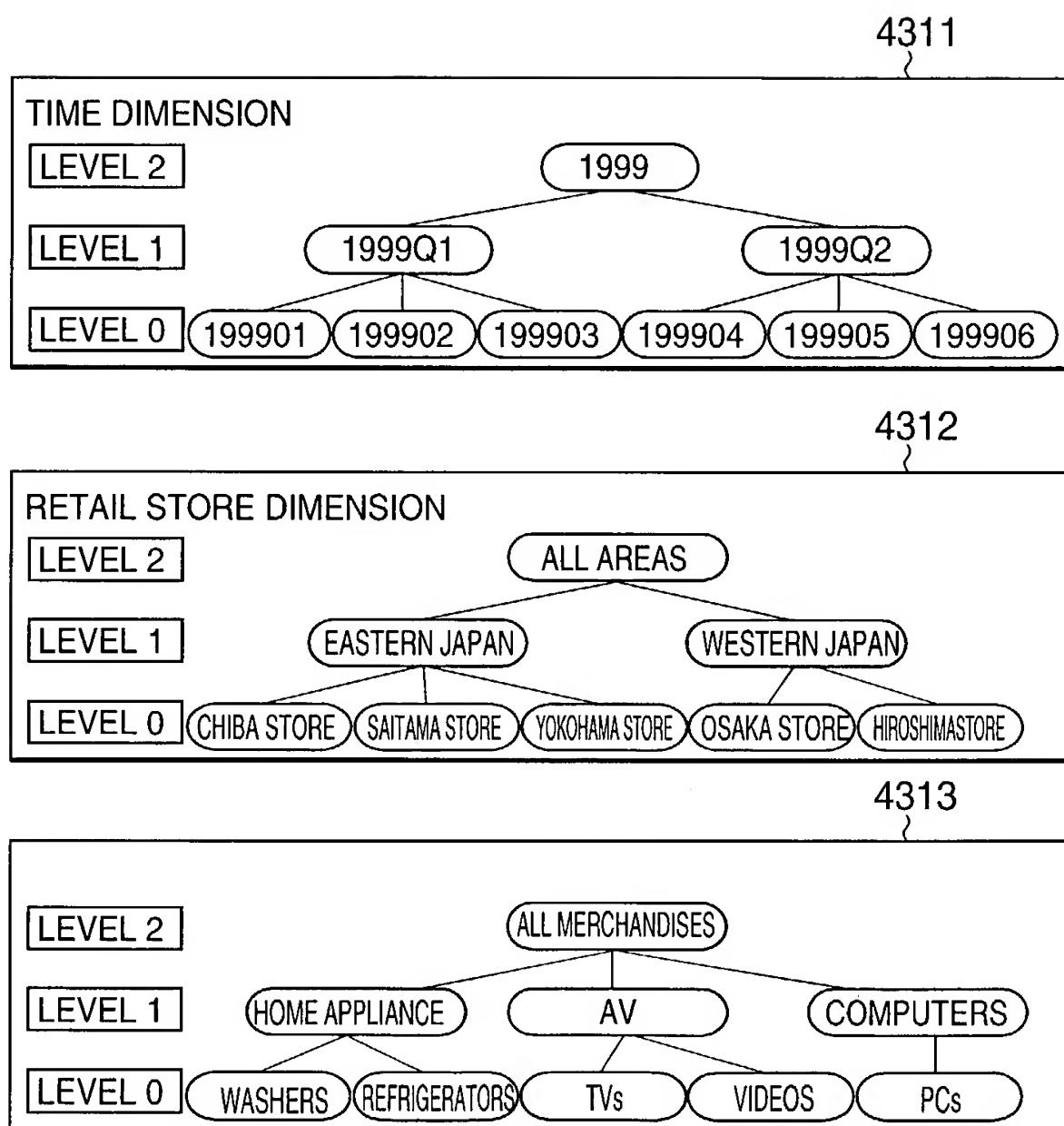




FIG.11

3120
RETAIL STORE DIMENSIONAL LAYER RULE DEFINITION DATA }

```
#LAYER RULE :  
#OBTAINING LAYER INFORMATION FROM CSV FORMATTED FILE  
  
FROM FILE,CSV FILE1  
LEVEL0=COLUMN 3  
LEVEL1=COLUMN 2  
LEVEL2=COLUMN 1
```

FIG.12

3126 }

```
ALL AREAS,EASTERN JAPAN,CHIBA STORE  
ALL AREAS,EASTERN JAPAN,SAITAMA STORE  
ALL AREAS,EASTERN JAPAN,YOKOHAMA STORE  
ALL AREAS,WESTERN JAPAN,OSAKA STORE  
ALL AREAS,WESTERN JAPAN,HIROSHIMA STORE
```



FIG. 13

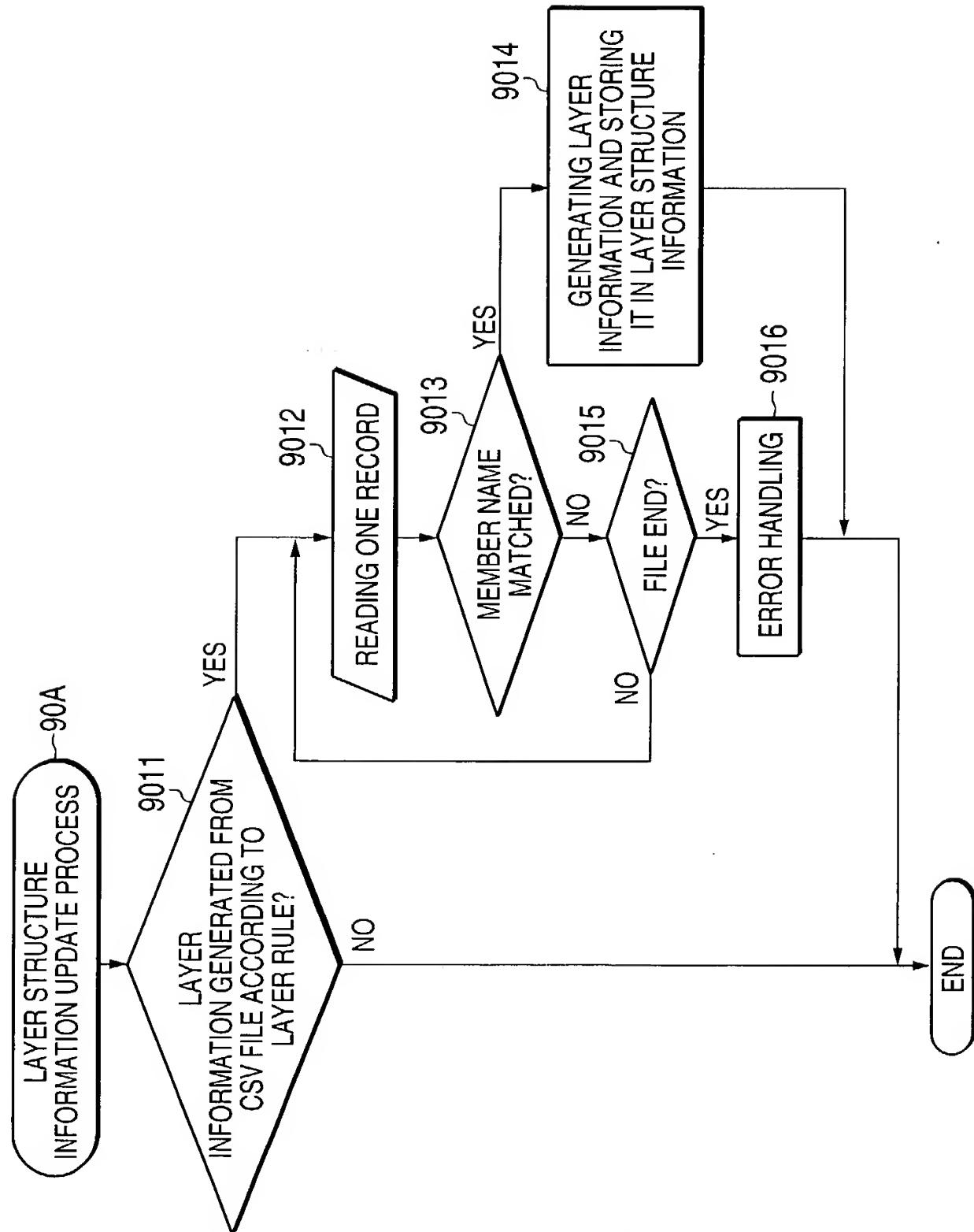




FIG.14

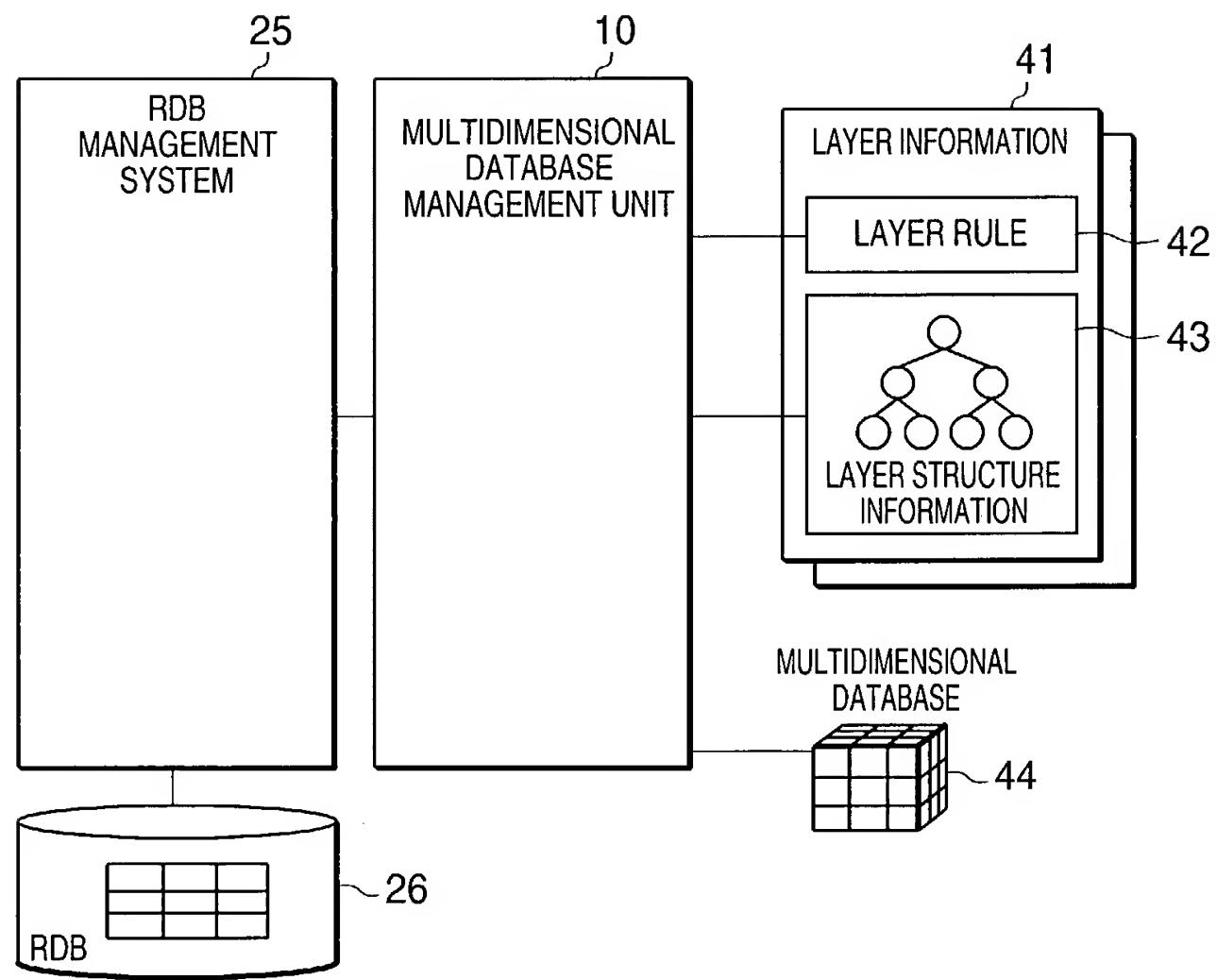




FIG.15

3130

MERCHANDISE DIMENSIONAL LAYER RULE DEFINITION DATA

```
#LAYER RULE : RDB TABLE 'PRODUCT MASTER TABLE'  
#OBTAINING FROM COL1,COL2  
FROM RDB TABLE 'PRODUCT MASTER TABLE'  
LEVEL 0=SMALL CLASSIFICATION  
LEVEL 1=LARGE CLASSIFICATION  
LEVEL 2="ALL MERCHANDISE"
```

FIG.16

CONTENT OF RDB PRODUCT MASTER TABLE

LARGE CLASSIFICATION	SMALL CLASSIFICATION
HOME APPLIANCE	WASHERS
HOME APPLIANCE	REFRIGERATORS
AV	TVs
AV	VIDEOS
COMPUTERS	<u>PCs</u>



FIG.17

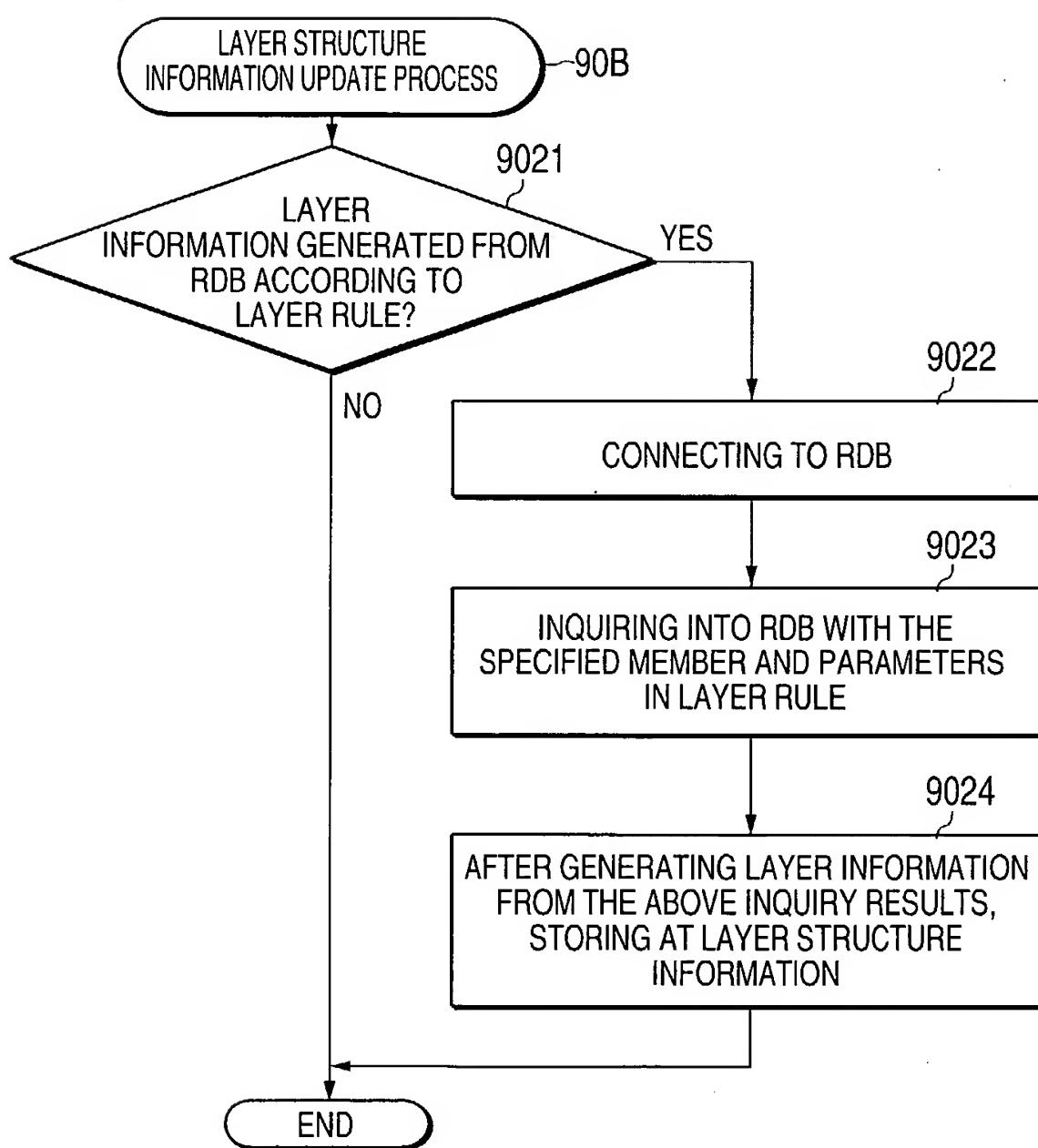




FIG.18

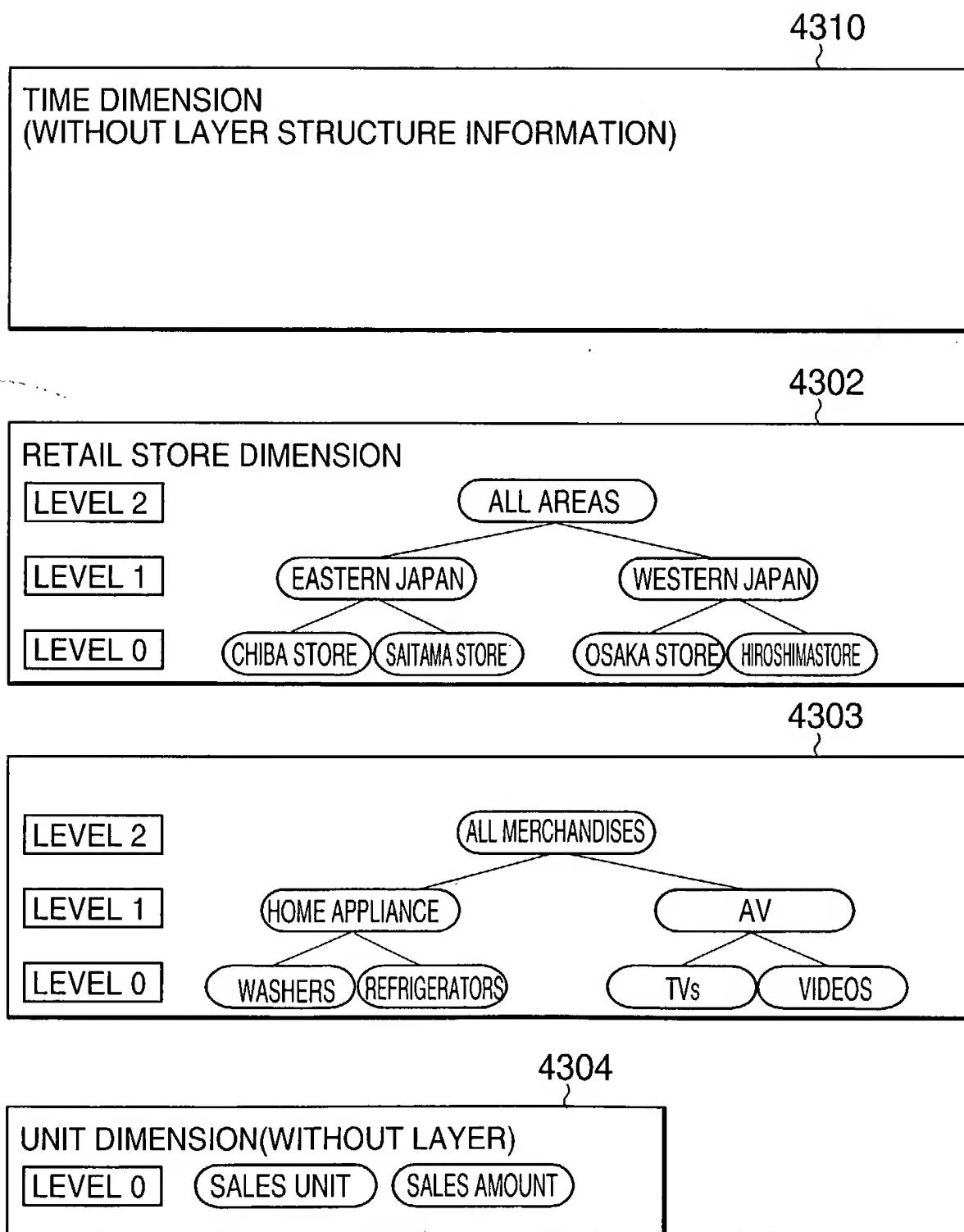




FIG.19

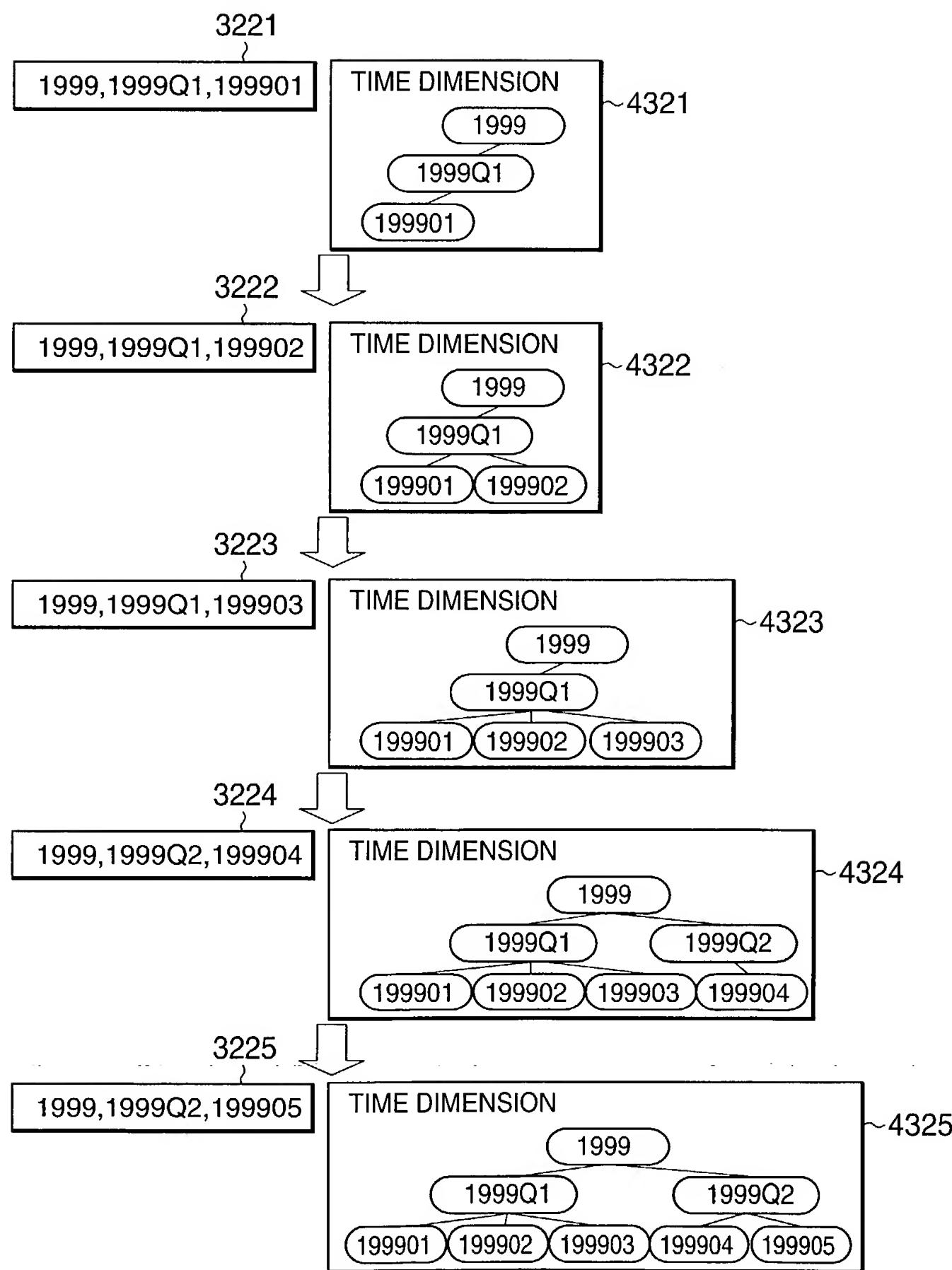




FIG.20 PRIOR ART

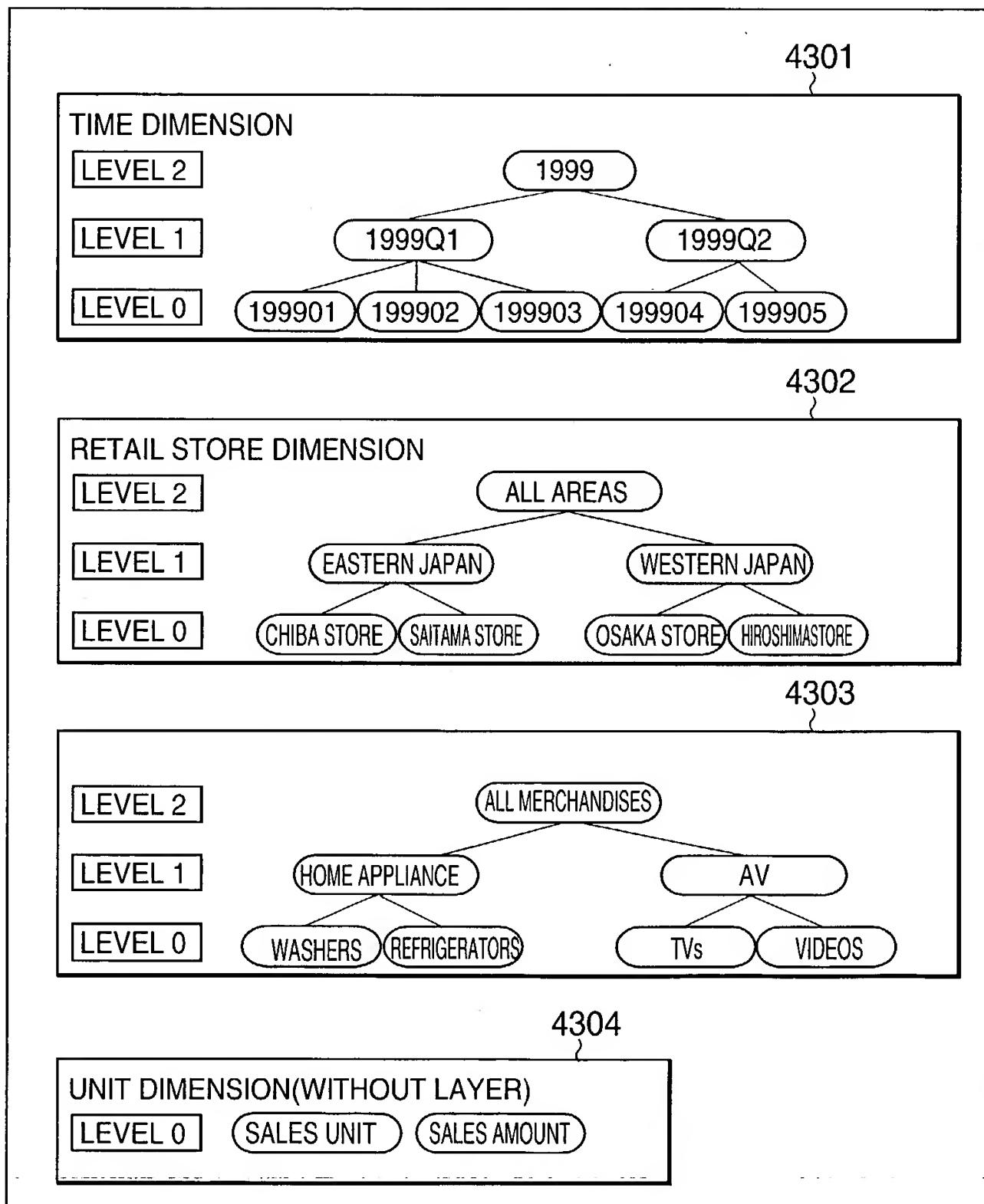




FIG.21 PRIOR ART

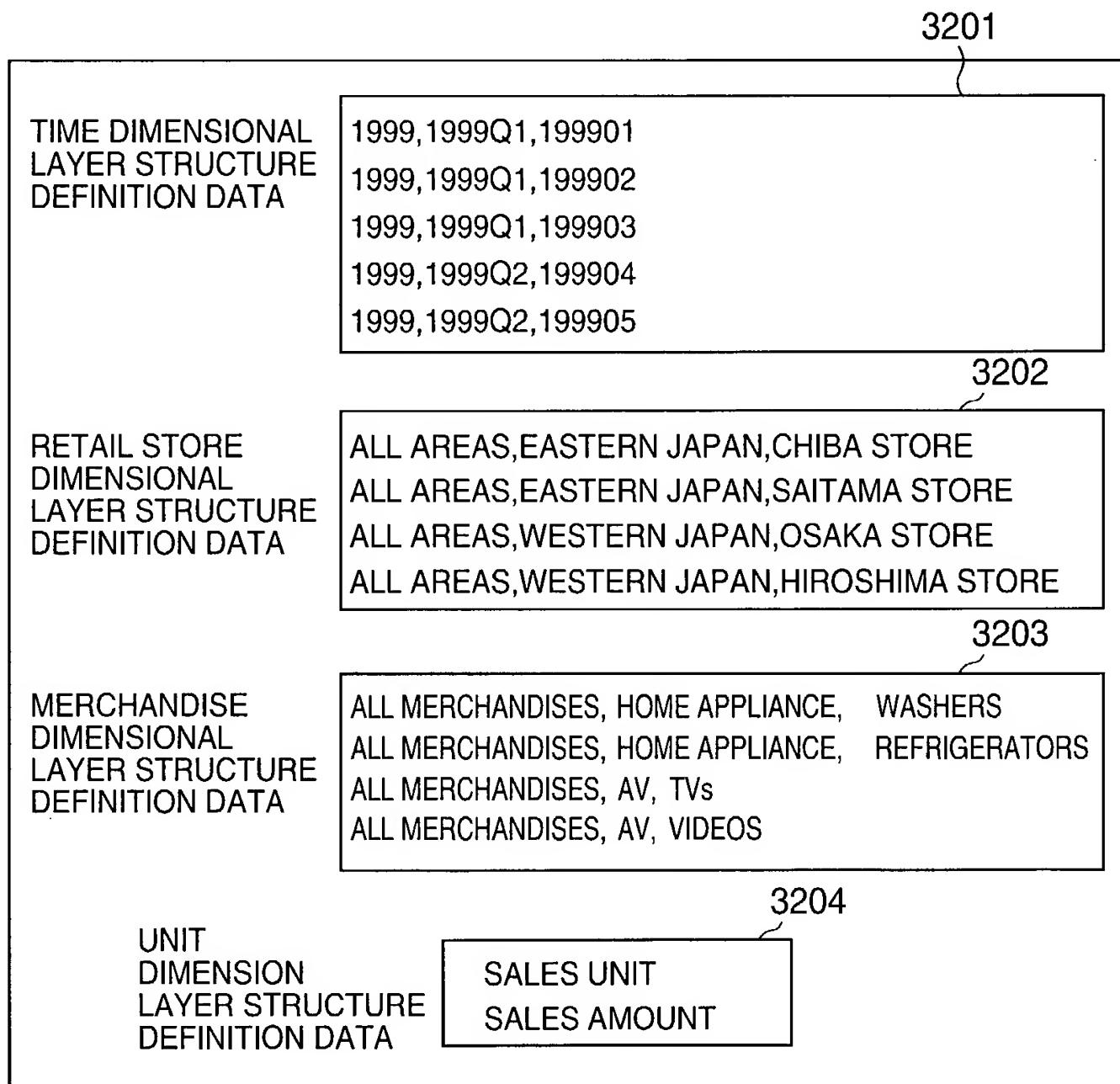




FIG.22 PRIOR ART

3301

199901, SAITAMA STORE,	TVs,	22, 2420000
199901, OSAKA STORE,	REFRIGERATORS,	15, 1350000
199902, HIROSHIMA STORE,	VIDEOS,	42, 2940000
199902, SAITAMA STORE,	WASHERS,	21, 1680000
199903, CHIBA STORE,	VIDEOS,	33, 2310000
199904, HIROSHIMA STORE,	REFRIGERATORS,	18, 1620000
199905, CHIBA STORE,	TVs,	45, 4950000
⋮		



FIG.23 PRIOR ART

MERCHANDISE DIMENSION		TVS		1999	
UNIT DIMENSION		SALES AMOUNT		1999Q1	
TIME DIMENSION				1999Q2	
RETAIL STORE	199901	199902	199903	199904	199905
CHIBA STORE	1100000	3300000	770000	2200000	1100000
SAITAMA STORE	990000	990000	660000	2640000	660000
EASTERN JAPAN	2090000	1320000	1430000	4840000	1760000
OSAKA STORE	1100000	1100000	1100000	3300000	1100000
HIROSHIMA STORE	330000	550000	1100000	1980000	1100000
WESTERN JAPAN	1430000	1650000	2200000	5280000	1210000
ALL AREAS	3520000	2970000	3630000	10120000	2970000



FIG.24 PRIOR ART

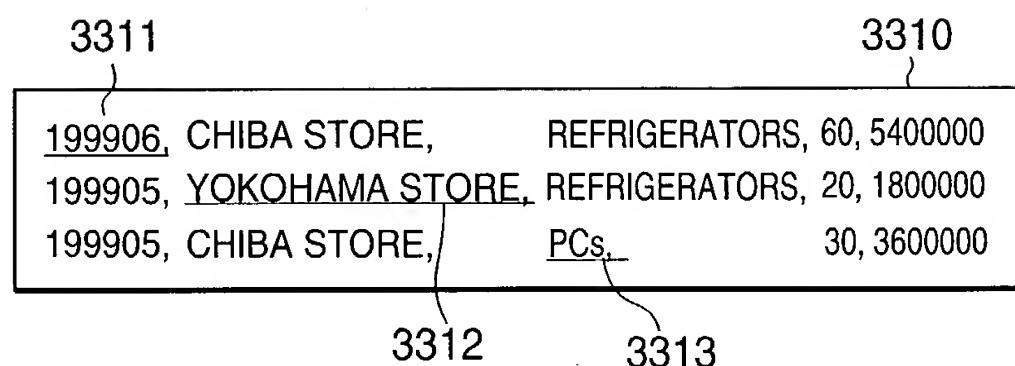


FIG.25 PRIOR ART

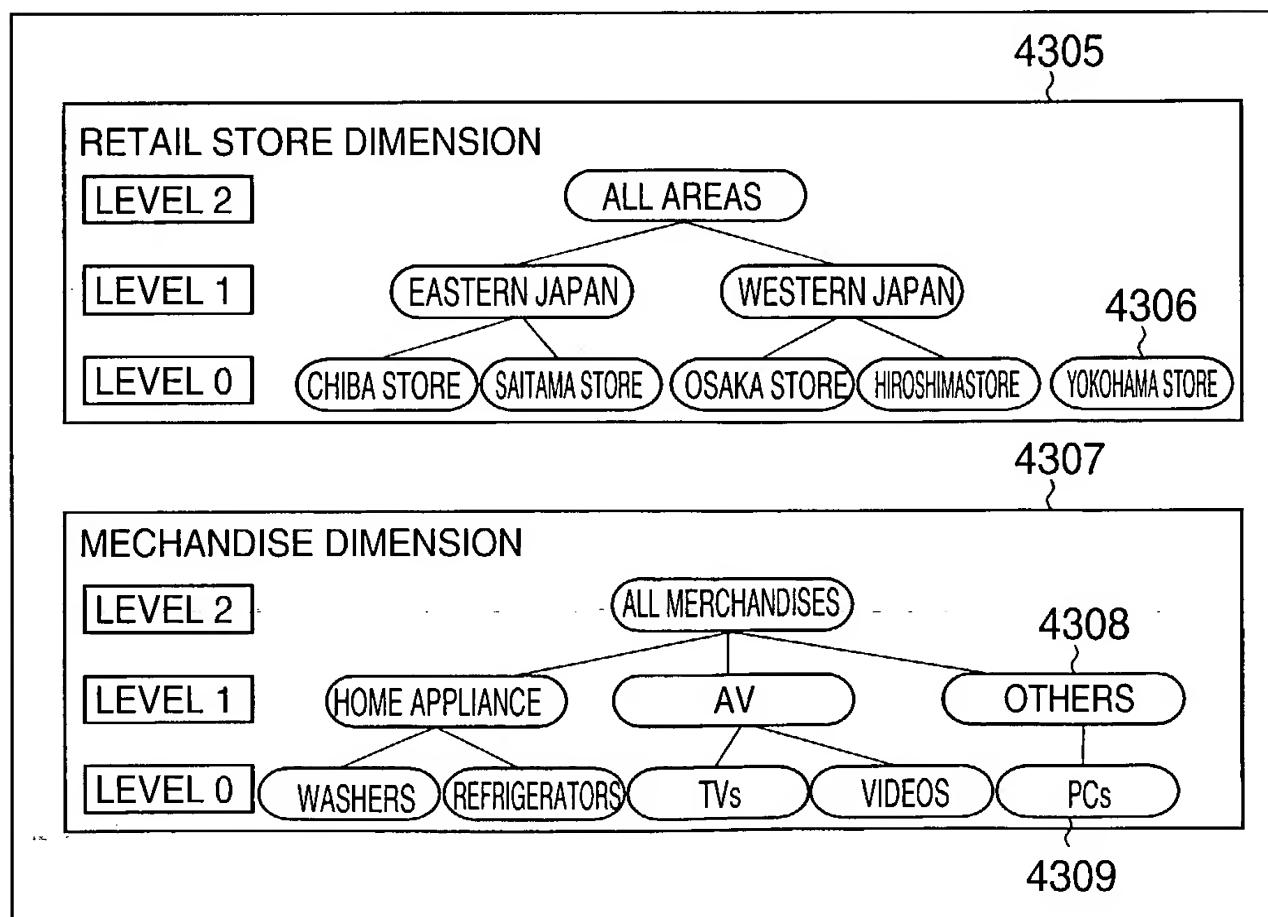




FIG.26

RETAIL STORE DIMENSION LAYER DEFINITION DATA

#MAIN LAYER RULE: #SEQUENTIALLY APPLYING SUBRULES APPLYING SUBRULE STORE_RULE1 APPLYING SUBRULE STORE_RULE2	~ 3140
#SUB LAYER RULE :STORE_RULE1 #FROM CSV FILE, OBTAINING LAYER INFORMATION FROM FILE, CSV FILE1 LEVEL 0=COLUMN 3 LEVEL 1=COLUMN 2 LEVEL 2=COLUMN 1	~ 3141
#SUB LAYER RULE:STORE_RULE 2: #AFTER CHARACTER ROW CONVERSION ON RETAIL STORE, OBTAINING LAYER INFORMATION FROM MEMBER NAME LEVEL 0= \$ MEMBER NAME LEVEL1={ S/\(\.JAPAN\). \\$ /\1/ } LEVEL 2={ ALL SALES TERRITORIES }	~ 3142

FIG.27

3340

199901, EASTERN JAPAN SAPPORO STORE, TVS,17, 1870000 199902, HIROSHIMA STORE, VIDEOS, 42, 2940000 199903, EASTERN JAPAN SAPPORO STORE, REFRIGERATOR, 15, 1350000
--



FIG.28

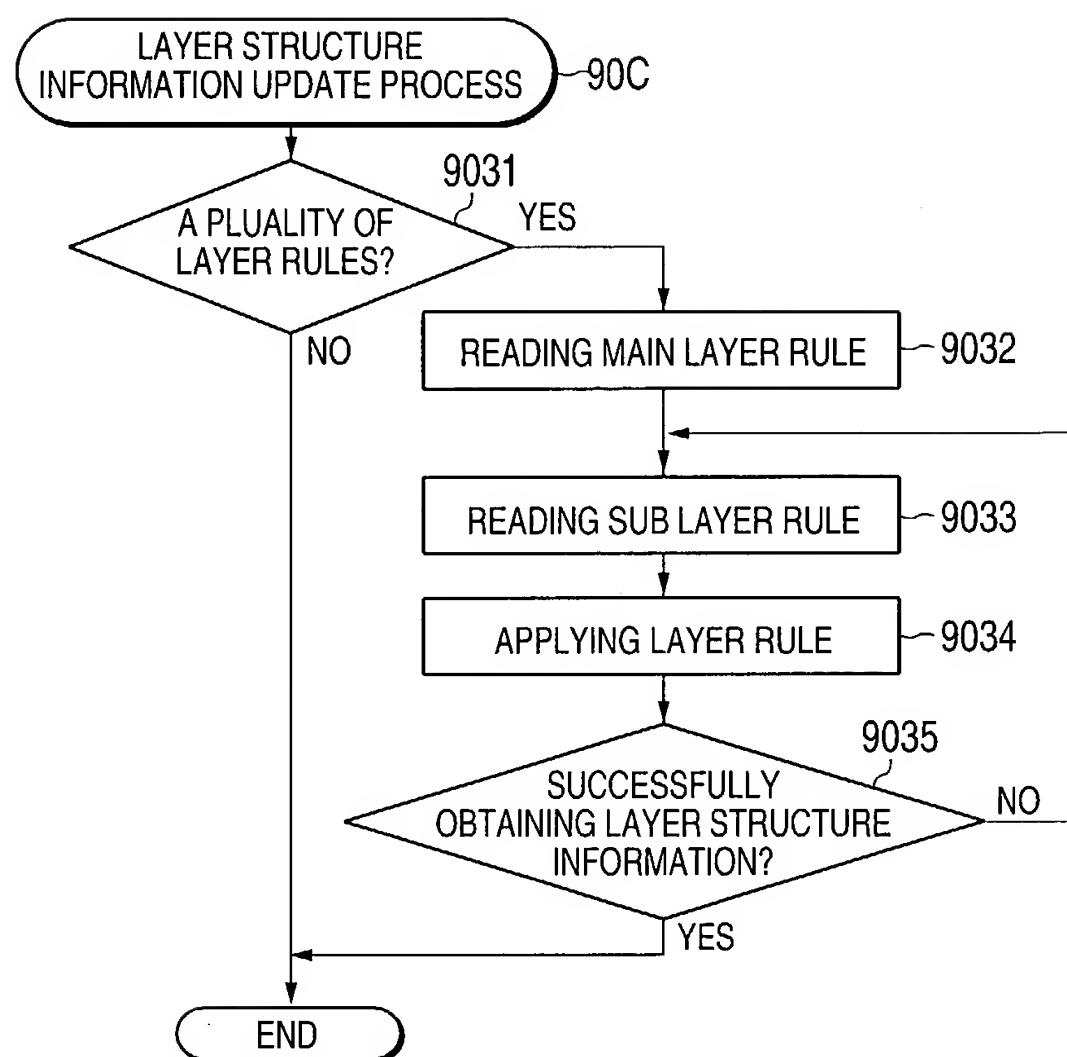


FIG.29

